

□ Selective removal of gas mixt components passing  
**membrane** - by **flushing** liq. having preferential  
reaction with target component.

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In removing one component from a **gas mixt.**, esp.  
**water** vapour, the **mixt.** is applied at pressure of 1.1 to  
1 million Pa to a membrane permeable to polar molecules. The membrane  
surface away from the gas appln. side is flushed with liq. having  
preferred affinity for the selected component (water). The flushing liqs.  
whose action may be chemical or physical, include those forming solvates,  
e.g. hydrates, alcoholate or aminates.

The process may be divided into thermally distinguished phases,  
starting with hot operation at 30-90 deg.C, then progressively cooling  
down to -30 deg.C. The membrane may be formed of helical hollow fibres  
forming feed conduits for the initial gas mixt., with several membranes  
combined in a hollow fibre bundle.

USE - Used for selective drying of IC engine exhaust gases to aid  
research,, or for general atmos. investigations by IR spectroscopy or gas  
chromatography.

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